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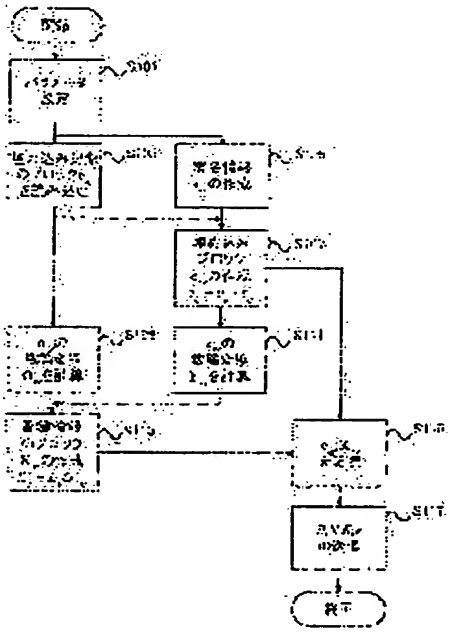
(54) FALSIFICATION POSITION DETECTION METHOD, FALSIFICATION POSITION DETECTION PROGRAM, AND RECORD MEDIUM RECORDING THE PROGRAM

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a falsification position detection method using a weak electronic watermark due to number theoretical transform, and to provide a falsification correction method.
SOLUTION: A processing section obtains main key information P for the number theoretical transform and a root α of an order N using the orders N and the P as a modulus based on P (S101). The processing section inputs each pixel value oij of an original image block oxy (S103). The processing section creates signature information sxy for embedding in each pixel value oxy based on the P (S105). The processing section obtains an embedded image block exy where the signature information is embedded by obtaining the difference between oxy and sxy (S107). The processing section obtains a number theoretical transform coefficient Exy of exy and that Oxy of the oxy (S109, S111). The processing section generates a block Kxy of subkey information corresponding to each block (S113). The processing section processes each step to the original pixel block oxy, obtains exy and Ksy for storing at a storage section (S115), and transmits exy, P, N, and Kxy (S117).



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